
Learning to Lead Mathematics Professional Development

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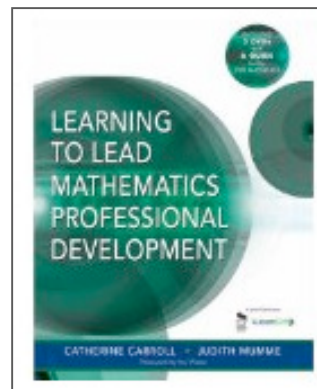
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Program and Leadership Knowledge: Books

DESCRIPTION

Learning to Lead Mathematics Professional Development, by Catherine Carroll and Judith Mumme, is composed of case-based leadership resources, including forty-four (44) seminars on two (2) DVDs, that provide mathematics specialists with facilitation skills, pedagogical and content knowledge, and relationship building tools to design and implement effective professional learning opportunities. Well-prepared mathematics teachers are needed now more than ever. While initial teacher preparation programs provide a foundation, it is the effective and ongoing professional learning that provides an opportunity for teachers to continue to develop their knowledge of mathematics and mathematics teaching. Likewise, those who plan and deliver professional learning need ongoing opportunities to develop the full range of knowledge and skill required to be effective. The set provides seven (7) modules, including video portraying authentic instances of professional learning. Leaders use the seminars to examine and analyze K-12 mathematics professional learning. Leaders will:



- Learn how to design professional development (PD) to achieve specific goals and purposes
- Deepen knowledge of the mathematics needed in teaching
- Build a repertoire of strategies and facilitation moves for designing and implementing a PD program

The design and facilitation of PD focuses on the following key areas:

- Purpose
- Mathematics
- Socio-mathematical Norms
- Sense-making
- Access and Equity

STAGE 2 LEADERSHIP DEVELOPMENT

Learning to Lead Mathematics Professional Development, by Catherine Carroll and Judith Mumme, supports stage 2 development of leaders interested in developing leadership skills of those they lead. Mathematics specialists may use these materials to provide professional learning for teachers and as ongoing opportunities for specialists to develop their skills and continue their own learning.

Everything needed to plan and present the seven (7) modules is included in a ready to use format. To get started with the materials, readers are encouraged to first read the entire Module Guide and then to interpret the materials in making specific plans for your group. The author suggests groups should begin with the Core Module that is detailed in chapter 4. The seven modules include:

- Core Module: Issues and Challenges in Mathematics Professional Development
- Attending to Access and Equity
- Choosing, Using, and Adapting Tasks
- Managing Discussion to Promote Mathematical Learning
- Using Classroom Artifacts
- Using Teacher Explanations
- Working with Elementary Teachers

Following the suggestions in chapter 4 you will:

- Access the materials for the Core Module found on DVD #1
- Read the Module Guide
- Familiarize yourself with a seminar (each module consists of 6-8 seminars)
 - Open a seminar folder from the DVD
 - Examine part of the facilitation notes
 - Do the mathematics
 - View the video
 - Read the remainder of the facilitation notes
 - Read the full annotated agenda
 - Practice with the power point